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NPIC/R-361/64

June 1964

PHOTOGRAPHIC INTERPRETATION REPORT

LENINGRAD SOUTHWEST INNER
RADAR SITE, USSR



CIA



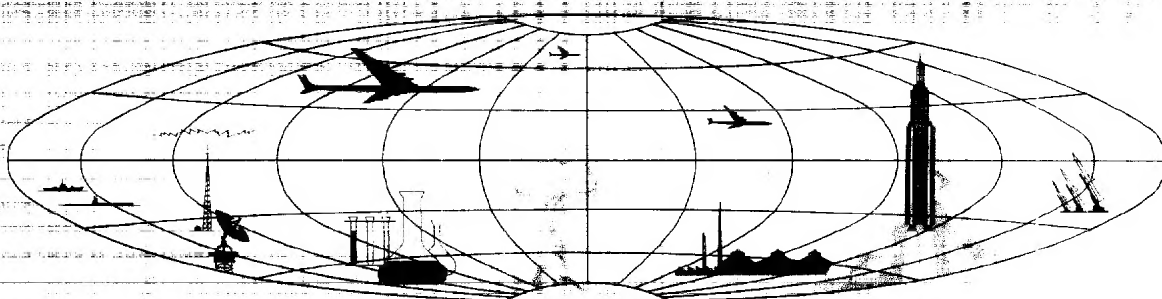
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LENINGRAD SOUTHWEST INNER RADAR SITE, USSR

PREFACE

This report has been prepared in response to a CIA requirement for a detailed analysis of the "Leningrad Southwest Electronics Facility," one of ten circumferential radar sites recently analyzed in an NPIC report, 1/ and an Army request that this site be compared with Instrumentation Site 2 at the Sary-Shagan Antimissile Test Center.

The results achieved reveal significant information with respect to buildings and structures attendant to the probable antennas at the southwest site but negligible information was derived with respect to the probable antennas themselves. This is because the coverage was not stereographic and because the advantage of the high-resolution photography was minimized [REDACTED]

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SUMMARY

The southwest site, which is located at 59-44-███N 29-34-███E, 25 nautical miles (nm) west-southwest of Leningrad, USSR, and 8 nm east of

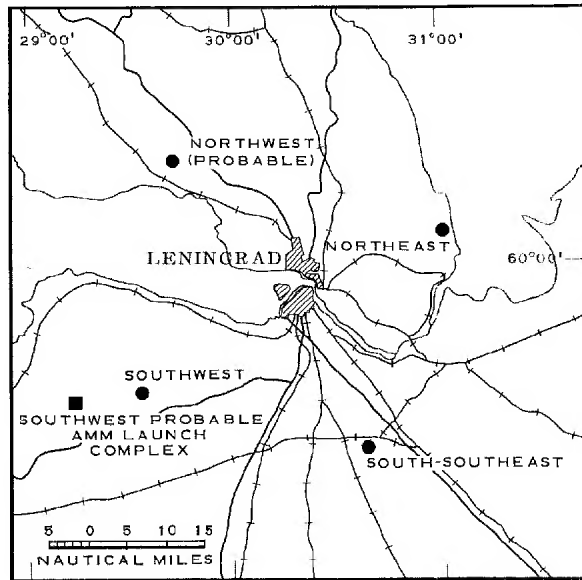


FIGURE 1. LOCATION OF SOUTHWEST AND OTHER INNER RADAR SITES.

the Leningrad Southwest Probable AMM Launch Complex (Figure 1), is a doubly secured, irregularly shaped 2,700- by 1,300-foot area.

The site was compared with Instrumentation Site 2 at Sary-Shagan and bore no similarity; consequently, no further reference is made to Sary-Shagan in this report.

The area adjacent to this site was searched with negative results in an attempt to locate any microwave towers or land lines which might link the site with probable AMM facilities in the Leningrad area. However, presence of such items cannot be negated as interpretation is hampered ██████████

The site can be divided roughly into two sections, an operations section located to the west of the central access road and an immediate operational support section located east of this road. The site probably receives additional support from a SAM support facility located one nm to the northwest.

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OPERATIONS SECTION

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The operations section (Figures 2 and 3) consists of a large central control bunker, six towers which appear to be platforms elevated on columnar structures, and a probable generator building.

The control bunker measures approximately 380 by 150 feet, has at least eight vents positioned on its roof, and appears to be a drive-in type with a graded access road leading to an east entrance.

The towers (Figure 3, inset) measure approximately 45 by 40 feet and are approximately

40 feet in elevation ██████████ under somewhat limiting conditions. Previous measurements from KH-4 photography of the south-southeast inner radar site tower heights range as high as 65 feet. The towers are spaced so that the two to the south are approximately 410 feet apart, the two in the center are 570 feet apart, and the two to the north are approximately 400 feet apart. They appear to support unidentified objects, probably radar equipment/antennas, but the images are very poor and no definite shape or form can be seen.

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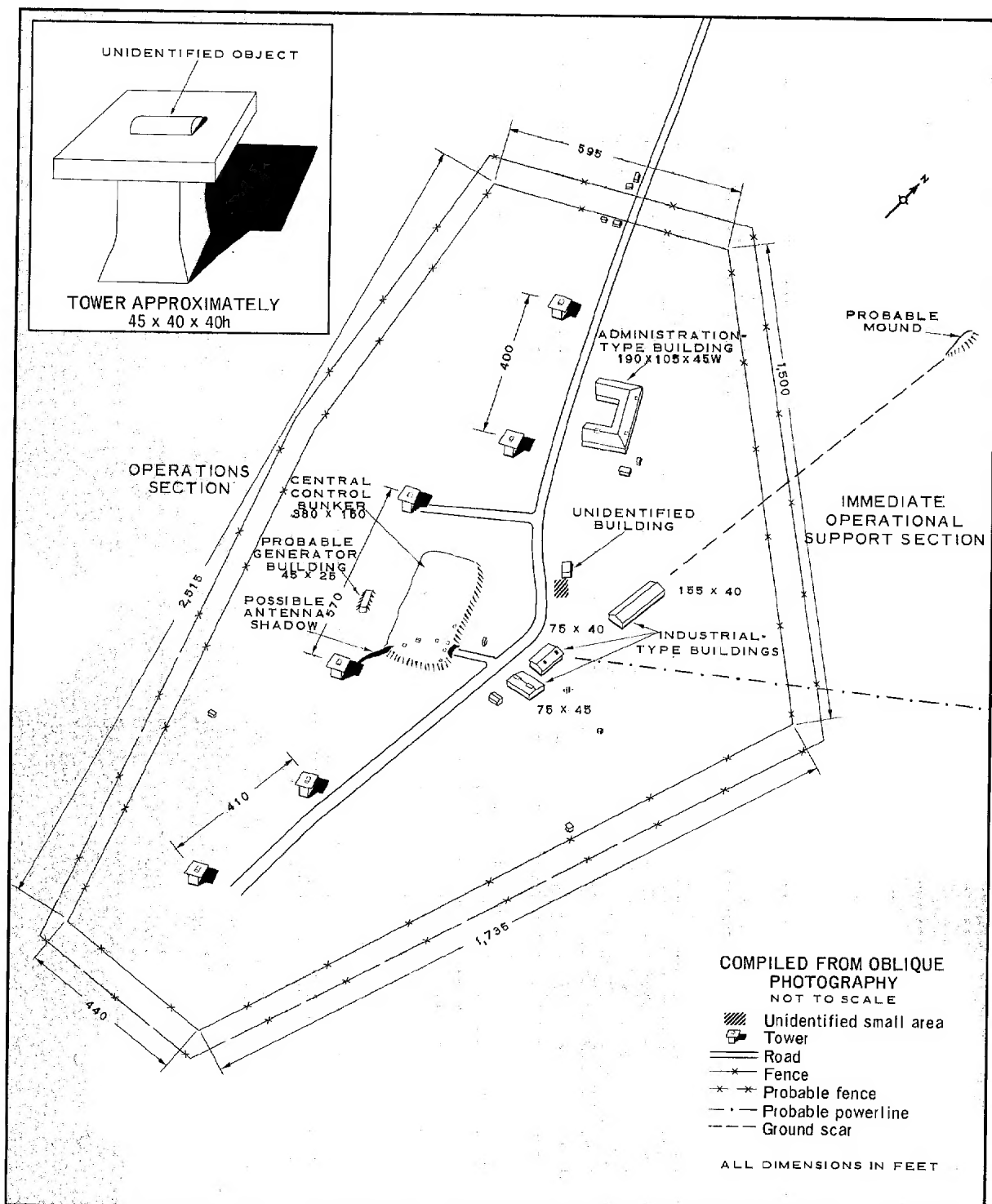


FIGURE 3. LENINGRAD SOUTHWEST INNER RADAR SITE.

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NPIC/R-361/64 25X1D

The towers, although not in a straight line configuration, appear to "look" in a single direction, [REDACTED] that passes just south of the Leningrad Southwest Probable AMM Launch Complex and the reciprocal of which passes immediately south of Leningrad. As was recently stated in referenced report, 1/ the perpendicular bisectors of imaginary lines through the positions at each of the Leningrad inner and outer sites pass approximately through Leningrad, indicating these positions (towers in the case of the four inner sites and mounds in the case of the six outer sites) "look" radially

outward from the city, the direction depending on the bearing of the site from the city.

Although no antennas can be identified as such because of the limitations of the photography previously mentioned, one of the positions does appear to cast a long thin shadow suggesting that an antenna of substantial height may be in place atop the tower platform.

The probable generator building is located between the two center towers, is partially earth banked, and measures approximately 45 by 25 feet.

IMMEDIATE OPERATIONAL SUPPORT SECTION

This section (Figure 3) contains a number of buildings, the largest being a "block C" configured, administration-type, single-story building measuring 190 by 105 feet overall and approximately 45 feet wide. Presence of this building is characteristic of all the Leningrad inner circumferential sites.

In a separate area to the south are three industrial-type single-story buildings measuring 155 by 40 feet, 75 by 45 feet and 75 by 40 feet. The longest building has a ground scar ex-

tending from one end in a northerly direction to what appears to be a small mound outside the secured area. Nothing can be seen on the mound.

A probable powerline enters the area of these three buildings from the east-northeast.

In addition to the major buildings, the control bunker, and the towers, there are at least 12 smaller buildings located throughout the site. Because of their small size, their dimensions are not given.

REFERENCES

PHOTOGRAPHY 25X1D



MAPS OR CHARTS

DIA. US Air Target Chart, Series 200, Sheet 0153-4HL, 2d ed, May 63, scale 1:200,000 (SECRET)

DOCUMENT

1. NPIC. R-299/64, *Circumferential Radar Sites, Leningrad, USSR*, May 64 (TOP SECRET CHESS RUFF)

REQUIREMENTS

CIA. C-RR4-81,383

Army. SRI-26-1-64

NPIC PROJECT

N-546/64 (partial answer)

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